

**IN THE CLAIMS**

1. (currently amended) A vacuum pumping arrangement for controlling pressure in a chamber, ~~the arrangement~~ comprising: a molecular pumping mechanism and a backing pumping mechanism, ~~said~~the backing pumping mechanism being rotatable by a motor, ~~said~~the motor being arranged to rotate ~~said~~the molecular pumping mechanism simultaneously with ~~said~~the backing pumping mechanism, and control means for controlling ~~the~~ rotational speeds of the backing pumping mechanism and the molecular pumping mechanism.
2. (currently amended) ~~A~~The vacuum pumping arrangement as claimed in claim 1, wherein the molecular pumping mechanism and the backing pumping mechanism are ~~arranged to be driven by a common drive shaft which is arranged to be driven by said~~the motor
3. (currently amended) ~~A~~The vacuum pumping arrangement as claimed in claim 1 ~~or 2~~, wherein ~~said~~the molecular pumping mechanism comprises a molecular drag pumping ~~means~~mechanism.
4. (currently amended) ~~A~~The vacuum pumping arrangement as claimed in claim 3, wherein ~~said~~the molecular drag pumping ~~means~~mechanism comprises a Holweck pumping ~~means~~mechanism.
5. (currently amended) ~~A~~The vacuum pumping arrangement as claimed in claim 4, wherein a holweck cylinder of the Holweck pumping ~~means~~mechanism is formed from carbon ~~fibre~~fiber reinforced material.
6. (currently amended) ~~A~~The vacuum pumping arrangement as claimed in ~~any one of the preceding claims~~claim 1, wherein ~~said~~the molecular pumping mechanism ~~comprising~~ comprises a turbomolecular pumping means.
7. (currently amended) ~~A~~The vacuum pumping arrangement as claimed in ~~any one of the preceding claims~~claim 1, wherein the backing pumping mechanism is a regenerative pumping mechanism.

8. (currently amended) ~~A~~ The vacuum pumping arrangement as claimed in ~~any one of the preceding claims~~ claim 1, wherein the control means comprises means for measuring the pressure in the chamber, and means for changing the rotational speeds of the molecular pumping mechanism and the backing pumping mechanisms in dependence on the measured pressure.
9. (currently amended) A method of controlling pressure in a chamber connected to an inlet of a vacuum pumping arrangement ~~comprising~~ including a backing pumping mechanism and a molecular pumping mechanism, and a motor for driving ~~said~~ the backing pumping mechanism, the method comprising using ~~said~~ the motor to control rotation of ~~said~~ the molecular pumping mechanism thereby ~~to controlling~~ controlling pressure in ~~said~~ the chamber.
10. (currently amended) A method as claimed in claim 9, wherein the backing pumping mechanism and the molecular pumping mechanism are coupled to a common drive shaft and the method comprises using the motor to control rotation of the common drive shaft thereby ~~to controlling~~ controlling pressure in ~~said~~ the chamber.
11. (new) A vacuum pumping arrangement as claimed in claim 3, wherein the molecular pumping mechanism comprises a turbomolecular pumping means.
12. (new) A vacuum pumping arrangement as claimed in claim 4, wherein the molecular pumping mechanism comprises a turbomolecular pumping means.
13. (new) A vacuum pumping arrangement as claimed in claim 6, wherein the backing pumping mechanism is a regenerative pumping mechanism.
14. (new) A vacuum pumping arrangement as claimed in claim 13, wherein the control means comprises means for measuring the pressure in the chamber, and means for changing the rotational speeds of the molecular pumping mechanism and the backing pumping mechanism in dependence on the measured pressure.
15. (new) A vacuum pumping arrangement as claimed in claim 11, wherein the backing

pumping mechanism is a regenerative pumping mechanism.

16. (new) A vacuum pumping arrangement as claimed in claim 12, wherein the backing pumping mechanism is a regenerative pumping mechanism.